

Leptopoma vitreum Lesson, Salamo.

Palaeohelicina stanleyi sinus Hedley, Iburai.

Papuina williamsi atalanta new subspecies

This subspecies is similar in all of its general characters to *P. williamsi* Clench and Archer (Naut. 49, p. 88, 1936) differing only in its method of coloration. The ground color is similar, but this subspecies possesses a series of spiral bands of chocolate brown varying from 4 to 10 in number. These occur both above and below the periphery, the peripheral area being the widest portion between any of the bands. There is a tendency of the bands coalescing on a few of the shells, particularly on the early whorls.

Height 19; Width 25; Aperture 10.8×10 mm. Holotype.

Holotype.—Mus. Comp. Zoöl. 111151, Omarakana, north central Kiriwina Id., Trobriand Islands. H. Williams collector, 1936.

Remarks.—This new form bears the same relationship to *P. williamsi* as *P. trobriandensis* does to *P. albocarinata*, the former in each case being a banded race of the latter.

THREE NEW SECTIONS AND RECIFICATIONS OF SOME SPECIFIC NAMES IN THE PECTINIDAE

BY LEO GEORGE HERTLEIN

(Concluded from p. 27)

PECTEN (CHLAMYS) PROTOTRANQUEBARICUS var. NOETLINGI, new name

Pecten (Chlamys) prototranquebaricus Vredenburg var. *paucicostatus* Vredenburg, Mem. Geol. Survey India, Vol. 50, pt. 2, 1928, p. 433, pl. 15, fig. 14. "Gwadar, Baluchistan, Mekran series (Gwadar stage)." Miocene.

Not *Pecten paucicostatus* Carpenter, Rept. British Assoc. Adv. Sci. for 1863 [issued 1864], p. 645.—See Arnold, U. S. Geol. Survey, Prof. Paper 47, 1906, p. 137, pl. 39, figs. 3, 3a, and 4. "The type is labelled 'Santa Barbara' by Jewett, but is unquestionably from the Gulf of California, as no species with its characteristics is known outside the tropical fauna. Besides, Jewett was known to be quite careless regarding the localities of his

specimens." [= *P. tumbezensis* d'Orbigny, Voy. dans Amér. Mérid., Vol. 5, 1846, p. 663. Tumbes, Peru. A new name for *P. aspersus* Sowerby, not *P. aspersus* Lamarek].

The earlier use of *Pecten paucicostatus* by Carpenter makes it necessary to rename the variety described by Vredenburg. It can take the name *noetlingi*.

PECTEN (CHLAMYS) VREDENBURGI, new name

Pecten middlemissi Das-Gupta, Journ. & Proc. Asiatic Soc. Bengal, New Ser., Vol. 19, no. 4, 1923 [issued July, 1924], p. 84, pl. 11, figs. 9, 9a, 10, 11, 11a, 12. Hathab, Bhavanagar State (Kathiawar). India. Tertiary.

Not *Pecten (Chlamys) middlemissii* Diener, Mem. Geol. Survey India, Palaeontologia Indica, New Ser., Vol. 5, Mem. no. 1, 1913, p. 111, pl. 13, fig. 20. *Myophoria* limestone. Pastannah. Kashmir. Upper Triassic.

The combination, *Pecten middlemissi*, has been used by Diener, and the species described by Das-Gupta can take the name *vredenburgi*.

PECTEN (CHLAMYS) TAUPERSTRIATA var. DAS-GUPTAI, new name

Chlamys tauperstriata Sacco var. *spinosa* Das-Gupta, Journ. & Proc. Asiatic Soc. Bengal, New Ser., Vol. 19, no. 4, 1923 [issued July, 1924], p. 82, pl. 11, figs. 5, 6, 6a, 7, 7a. Hathab, Bhavanagar State (Kathiawar). India. Tertiary.

Not *Pecten spinosus* Brown, Illustrated Conch. Great Britain and Ireland, 1827, p. 73, pl. 24, fig. 8. [= *Pecten (Chlamys) multistriatus* Poli, according to Buequoy, Dautzenberg and Dollfuss, Moll. Marine Rousillon, Vol. 2, fasc. 3, 1889, p. 104, pl. 16, figs. 1, 2, 3, 4, 5. Mediterranean and Atlantic Ocean to Canary Islands, etc.]

Due to the earlier use of *Pecten spinosus* by Brown, the form described as *spinosa* by Das-Gupta can take the name *das-guptai*.

PECTEN MÖRICKEI, new name

Pecten tenuicostatus Hupé, Hist. Fis. y Pol. de Chile, Zool., Vol. 8, 1854, p. 291, Atlas Coq. pl. 5, fig. 4. "Habita fosil en los faluns de Chiloe."—Möricke, Neues Jahrb. f. Min. Geol. und Palaeo., Beil. Bd. 10, 1895–1896, p. 580, pl. 12, figs. 13, 14, 15, 16. "Tubul (Philippi)." Chile. Tertiary.

Not *Pecten tenuicostatus* Mighels & Adams, Proc. Boston Soc. Nat. Hist., Vol. 4, 1841 [1844 on title page but pp. 1–54 were

issued in 1841 according to Meisel], p. 49. "*Habitat*, Casco Bay."—Boston Journ. Nat. Hist., Vol. 4, no. 1, Jan., 1842, p. 41, pl. 4, fig. 7. [= *Pecten grandis* Solander, Portland Cat., 1786, p. 50. See Dall, NAUTILUS, Vol. 34, no. 3, 1921, p. 99. *Pecten magellanicus* Gmelin is a synonym according to Dall, NAUTILUS, Vol. 38, no. 4, 1925, p. 112.]

The name *tenuicostatus* was proposed as a specific name for a pecten by Mighels & Adams much earlier than by Hupé. The name *mörickei* is here proposed for the species from Chile described by Hupé.

PECTEN CAMBODICUS, new name

Pecten fimbriatus Mansuy, Mem. Serv. Geol. Indochine, Vol. 1, fasc. 2, 1912, p. 129, pl. 24, figs. 4a, 4b. Yun-nan, Indo-China. Triassic.

Not *Pecten fimbriatus* Philippi, Enum. Moll. Siciliae, Vol. 2, 1844, p. 61, pl. 16, fig. 6. Sicily. Fossil. Not *Pecten fimbriatus* Moore, Quart. Journ. Geol. Soc., Vol. 26, 1870, p. 248, pl. 11, fig. 8. "Wollumbilla." Australia. [= *Pecten moorei* Etheridge, Geol. and Paleo. Queensland and New Guinea, 1892, p. 445, pl. 21, fig. 20. "Wollumbilla." Rolling Downs Formation. Lower Cretaceous.]

Pecten fimbriatus has been used by both Philippi and Moore. The species for which Mansuy use the same combination of names can be replaced by *Pecten cambodicus*.

PECTEN (CHLAMYS) OWENI Gregorio

Pecten pictus Sowerby, Thes. Conch., Vol. 1, 1842, *Pecten*, p. 62, pl. 20, fig. 233. "Isle of Baicus. Mr. Cuming." [The date on the title page is given as 1847, but according to Sherborn, this part was issued prior to November, 1842.]—Sowerby, Proc. Zool. Soc. London, 1842, p. 163. "*Hab.* Ins. Baiae. Ins. Negros, Philippinarum."—Reeve, Conch. Icon., Vol. 8, 1853, *Pecten*, sp. 116, pl. 28, fig. 116. "Isle of Baicus. Mr. Cuming."—Faustino, Philippine Bureau Sci., Mon. 25, 1928, p. 31. "Negros." Philippine Islands.

Not *Pecten pictus* Goldfuss, Petrefactae Germaniae, Bd. 2, 1834–1840 [this part issued 1833, according to Sherborn], p. 67, Taf. 97, figs. 4a, b, c. "Findet sich in den obersten tertiären Schichten am Mittelrhein." Oligocene.

Not *Pecten pictus* Da Costa, Brit. Conch., 1778, p. 144, pl. 9, figs. 1, 2, 4, 5. Great Britain and Ireland. [= *Pecten opercu-*

laris Linnaeus, Syst. Nat., Ed. 10, 1758, p. 698. "Habitat in *O. meridionali*."]]

Not *Pecten pictus* Deshayes in Laborde, Voy. Arab. Pétrée, 1830, p. 66. [= *P. sanguinolentus* Gmelin, according to Tomlin and Salisbury, Proc. Malacol. Soc. London, Vol. 18, pt. 1, 1928, p. 33.]]

Pecten oweni Gregorio, Naturalista Siciliano, Anno Terzo, no. 5, 1883-1884, p. 133. A new name for *Pecten pictus* Sowerby, not *Pecten pictus* Goldfuss.

Not *Pecten (Patinopecten) oweni* Arnold, U. S. Geol. Survey, Prof. Paper no. 47, 1906, p. 63, pl. 8, figs. 1a and 1b. "Foxin's Ranch, Santa Barbara County," California. Pliocene. [= *Pecten (Patinopecten) lohri* Hertlein, NAUTILUS, Vol. 41, no. 3, 1928, p. 93. A new name for *Pecten oweni* Arnold, not *Pecten oweni* Gregorio.]]

The species described as *Pecten pictus* by Sowerby was re-named *Pecten oweni* by Gregorio due to the earlier use of the same name by Goldfuss and others. Since Gregorio's correction has not been generally noticed, it is placed here so as to call attention to the nomenclature of the species.

PECTEN (PECTEN) VENTONENSIS Cooke

Pecten ventonensis Cooke, Carnegie Inst. Washington, Publ. 291, 1919, p. 130, pl. 12, figs. 1a, 1b. "One-half mile inland from the pier of the Juraguá Railroad, Santiago Bay," Cuba. "Oligocene."

Pecten (Pecten) barretti Woodring, Carnegie Inst. Washington Publ. 366, May, 1925, p. 62, pl. 7, figs. 6 and 7. Bowden, Jamaica. Middle Miocene.—Woodring, Carnegie Inst. Washington, Publ. 385, 1928, pp. 19, 61.

Not *Pecten barretti* Seeley, Ann. & Mag. Nat. Hist., Ser. 3, Vol. 7, 1861, p. 118, pl. 6, fig. 1. Upper Greensand near Cambridge, England. Cretaceous. [This falls in the synonymy of *Pecten (Chlamys) robinaldinus* d'Orbigny, according to Woods, Palaeontogr. Soc., Vol. 56 [Cret. Lamell., Vol. 1, pt. 4], 1902, p. 181.]]

Woodring has already suggested that the species described by him as *Pecten barretti* may fall in the synonymy of *Pecten ventonensis* Cooke. This observation appears to be correct, in which case, a new name will not be necessary for the Jamaican species. Seeley had already used the name *Pecten barretti* for a Cretaceous species.

PECTEN PHOENICIENSIS, new name

Pecten irregularis Blanckenhorn, Palaeontogr., Bd. 81 Abt. A, Lief. 4-6, 1934, p. 187, fig. 19. Syria: Cretaceous. Not *Pecten irregularis* Sowerby, Thes. Conch., Vol. 1, 1842 [date according to Sherborn], p. 69, pl. 13, figs. 51, 52. Recent. Not *Pecten irregularis* M'Coy, in Griffith's Syn. Carb. Lst. Foss. Ireland, 1844, p. 95, pl. 15, fig. 8. Ireland: Carboniferous.

The combination of names, *Pecten irregularis*, has been used by Sowerby and by M'Coy. The specific name *phoeniciensis* is proposed for the species described by Blanckenhorn.

PECTEN MANDANNAENSIS, new name

Pecten (Variamussium) yukonense Lees, Trans. Roy. Canadian Inst., Vol. 20, pt. 1, no. 43, Sept., 1934, p. 38, pl. 3, fig. 3. Mandanna Valley. Lewes River series. Laberge area. Yukon. Noric, Triassic.

Not *Pecten (Entolium) yukonensis* Smith, U. S. Geol. Surv., Prof. Paper 141, 1927, p. 122, pl. 101, figs. 9 and 10. South bank of Yukon River opposite Nation River, Alaska. Karnic, upper Triassic.

The name proposed by Lee is untenable according to the International Rules of Nomenclature. The name *mandannaensis* is here proposed for the species described by Lee.

PECTEN NOTOSYRIACUS, new name

Pecten syriacus Blanckenhorn, Denkschr. kais. Akad. Wissensch. Wien. Math-Naturwiss. Cl., Bd. 57, 1890, p. 611. Im obersten Miocänkalk von Fadikije auf dem Djebel el-Koseir, im Breccienkalk bei Kefr Maz südlich Katma an der Strasse nach Aleppo. Syria.—Blanckenhorn, Sitz. Phys.-Med. Soc. Erlangen, Heft 24, 1892, p. 26, pl. 2, figs. 3a, 3b. Not Janira [= *Pecten*] *syriaca* Conrad, in Lynch, Official Rept. U. S. Exped. to explore the Dead Sea and the River Jordan, Ap., 1852, p. 230, pl. 1, fig. 6 [two figs.]. "Local.: 'Abeih.'" Cretaceous. Not *Chlamys (Aequipecten) syriacus* Cossmann, in Douville, Bull. Soc. Geol. Franc., Ser. 4, Vol. 25, 1925, p. 325, pl. 8, figs. 7a, 7b, 7c. "Darbel-Cheikh." Maghara. Northern Sinai. Callovian, Jurassic.

The combination of names used by Conrad makes Blanckenhorn's use of *Pecten syriacus* untenable. The specific name *notosyriacus* is here proposed for the Tertiary species described by Blanckenhorn.